Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Dasarahalli Project Division

Name of work:-Construction of retaining wall and other development works to Proposed playground at Matlasndra in ward No.13

JOB NUMBER.:						Est. Amount = Rs	1.00	Crores
Sl. No	Description of Work	Unit	No	Dimension			Quantity	Rate	Amount
				L	B	D		in Rs.	in Rs.
1	Earthwork excavation by manual means in ordinary soil involving an averae horizontal throw upto 2 meters and an averae lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breakin of clods complete as per specifications. MORTH / Chapter 3- For Desilting of Drain {Page no -141.Item.No 19.1 of KPWD S.R 2015-16}.								
	Ch:00-102								
	Bottom Beam		2	102.00	0.60	0.45	55.08		
	Dedicated Column		35	1.20	1.00	0.45	18.90		
	Total Beam Earth Work						36.18		
	Footing For Column		35	1.40	1.20	1.00	58.80		
	Footing For Short Column		18	1.20	1.00	1.00	21.60		
	Footing For Front Beam Column		35	1.20	1.00	1.00	42.00		
	Bed Below Soil Fill		1	102.00	3.00	0.15	45.90		
	For SSM Wall								
	Ch:00-102 Side wall		2	4.50	0.60	0.65	3.51		
	Ch:00-102 wall		1	102.00	0.60	0.65	39.78		
	Ch:00-21.22(20.37+22.06/2)		1	21.22	1.00	0.65	13.79		
	Ch:00-21.22(20.37+22.06/2) Side wall		2	6.50	0.60	0.65	5.07		
	For PCC Bed		1	21.22	5.00	0.20	21.22		
	Ch:00-41 (43+39/2)		1	41.00	1.00	0.65	26.65		
	Ch:00-41 (43+39/2) Side Wall		2	11.50	0.60	0.65	8.97		
	For PCC Bed		1	41.00	8.00	0.20	65.60		
						Total Qty	389.07	178.85	69584.93
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1,4.2 (Page No. 12, It No. 4.2 of KPWD S.R 2015-16)								
	Beam								
	Ch:00-102 Bottom Beam		2	102.00	0.60	0.15	18.36		
	Ch:00-102 Dedicated Column		35	0.30	0.20	0.15	0.32		
	Ch:00-102 Total Beam Earth						18.05		
	Column		35	1.40	1.20	0.15	8.82		
	Short Column		18	1.40	1.20	0.15	4.54		
	Front Column		35	1.40	1.20	0.15	8.82		
	For PCCBed		1	102.00	3.00	0.15	45.90		
	For SSM Wall								
	Ch:00-102	Cum	1	102.00	4.00	0.15	61.20		
	Ch:00-102 Side wall		2	4.50	0.60	0.15	0.81		
	Ch:00-102 wall		1	102.00	0.60	0.15	9.18		
	Ch:00-21.22(20.37+22.06/2)		1	21.22	7.50	0.15	23.87		
	Ch:00-21.22(20.37+22.06/2) Side wall		2	6.50	0.60	0.15	1.17		
	For PCC Bed		1	21.22	5.00	0.15	15.92		
	Ch:00-41 (43+39/2)		1	41.00	11.50	0.15	70.73		
	Ch:00-41 (43+39/2) Side Wall		2	10.50	0.60	0.15	1.89		
	For PCC Bed		1	41.00	8.00	0.15	49.20		
						Total Qty	320.08	5236.92	1676251.68

Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
Ch:[illegible]22(20.37+22.06/2)								
Below Ground		1	21.82	1.00	0.50	10.91		
Riser								
		1	21.82	0.40	0.80	6.98		
		1	21.58	0.40	0.80	6.91		
		1	21.34	0.40	0.80	6.83		
		1	21.10	0.40	0.80	6.75		
		1	20.86	0.40	0.80	6.68		
		1	20.62	0.40	0.80	6.60		
		1	20.37	0.40	0.80	6.52		
Thead		1						
		1	21.82	1.00	0.40	8.73		
		1	21.58	1.00	0.40	8.63		
		1	21.34	1.00	0.40	8.54		
		1	21.10	1.00	0.40	8.44		
		1	20.86	1.00	0.40	8.34		
		1	20.62	1.00	0.40	8.25		
		1	20.37	1.00	0.40	8.15		
Side Wall	Cum	2	23.40	0.60	0.60	16.85		
Ch:00-41 (43+39/2)		1						
Below Ground		1	42.64	1.00	0.50	21.32		
Riser		1						
		1	42.64	0.40	0.80	13.64		
		1	42.27	0.40	0.80	13.53		
		1	41.91	0.40	0.80	13.41		
		1	41.54	0.40	0.80	13.29		
		1	41.18	0.40	0.80	13.18		
		1	40.82	0.40	0.80	13.06		
		1	40.45	0.40	0.80	12.94		
		1	40.00	0.40	0.80	12.80		
		1	39.72	0.40	0.80	12.71		
		1	39.36	0.40	0.80	12.60		
		1	39.00	0.40	0.80	12.48		
Thead		1						
		1	42.64	1.00	0.40	17.06		
		1	42.27	1.00	0.40	16.91		
		1	41.91	1.00	0.40	16.76		
		1	41.54	1.00	0.40	16.62		
		1	41.18	1.00	0.40	16.47		
		1	40.82	1.00	0.40	16.33		
		1	40.45	1.00	0.40	16.18		
		1	40.00	1.00	0.40	16.00		
		1	39.72	1.00	0.40	15.89		
		1	39.36	1.00	0.40	15.74		
		1	39.00	1.00	0.40	15.60		
Side Wall		2	59.40	0.60	0.60	42.77		
					Total Qty	**1064.26**	**3836.16**	**4082685.45**

7 KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, infoundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications (Page No. 12, It No. 4.6 of KPWD S.R 2015-16)

SSM Wall								
Ch:00-102		5	102.00	1.00	0.10	51.00		
Ch:00-21.22(20.37+22.06/2)								
		1	21.82	1.00	0.10	2.18		
		1	21.58	1.00	0.10	2.16		
		1	21.34	1.00	0.10	2.13		
		1	21.10	1.00	0.10	2.11		
		1	20.86	1.00	0.10	2.09		
		1	20.62	1.00	0.10	2.06		
		1	20.37	1.00	0.10	2.04		
Ch:00-41 (43+39/2)								
	Cum	1	42.64	1.00	0.10	4.26		
		1	42.27	1.00	0.10	4.23		

Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount In Rs.
KSR 2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, stmts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6.(Page No.-13 I.No-4.11 of KPWD S.R 2015-16)								
Ch:00-102								
Footing For Column	Cum	35	1.20	1.00	0.45	18.90		
Footing For Short Column		18	1.20	1.00	0.40	8.64		
Front Column		35	1.20	1.00	0.40	16.80		
Column		35	0.30	0.20	4.60	9.66		
Short Column		18	0.30	0.20	1.45	1.57		
Front Column		35	0.30	0.20	0.45	0.95		
Horizontal Beam		5	102.00	0.20	0.30	30.60		
Inclind Beam		35	5.40	0.20	0.30	11.34		
					Total Qty	98.45	6198.12	610211.11
4 KSRB 4-6.4 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (KPWD SR 2015-16, Page no-15, Item no-4.31)								
Ch:00-102								
Footing For Column	Sqm	35*2	1.20		0.50	42.00		
		35*2	1.00		0.50	35.00		
Footing For Short Column		18*2	1.00		0.45	16.20		
		18*2	1.00		0.45	16.20		
Footing For Front Column		35*2	1.00		0.45	16.20		
		35*2	1.00		0.45	16.20		
Column		35*2	0.30		4.60	96.60		
		35*2	0.20		4.60	64.40		
Footing For Short Column		18*2	0.30		1.20	12.96		
		18*2	0.20		1.20	8.64		
Footing For Front Column		35*2	0.30		0.50	5.40		
		35*2	0.20		0.50	3.60		
Horizontal Beam		5*2	102.00		0.30	306.00		
		5*2	102.00		0.20	204.00		
Inclind Beam		35*2	5.40		0.30	113.40		
		35*2	5.40		0.20	75.60		
					Total Qty	1032.40	306.72	316657.73
5 KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per directions of the Engineer-in-charge. Specification No. KBS 4.6.3(Item no: 4.46.2, Page no: 17 of KPWD S.R2015-16)								
For Retaining Wall	T							
One cubic mt 150kg			14.77			14.77		
					Total Qty	14.77	69805.80	1030867.62
6 KSRB 5.2-2: Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2015-16)								
SSM Wall								
Ch:00-102								
wall		1	102.00	0.40	4.00	163.20		
Dedicated Column		35	0.30	0.20	4.00	8.40		
Dedicated Beam		3	102.00	0.20	0.30	18.36		
Total wall						136.44		
Ch:00-102 wall		1	102.00	0.60	0.50	30.60		
Riser		5	102.00	0.40	0.80	163.20		
Thead		5	102.00	1.00	0.40	204.00		
Side Wall		2	12.00	0.60	0.60	8.64		

	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
			1	41.91	1.00	0.10	4.19		
			1	41.54	1.00	0.10	4.15		
			1	41.18	1.00	0.10	4.12		
			1	40.82	1.00	0.10	4.08		
			1	40.45	1.00	0.10	4.05		
			1	40.00	1.00	0.10	4.00		
			1	39.72	1.00	0.10	3.97		
			1	39.36	1.00	0.10	3.94		
			1	39.00	1.00	0.10	3.90		
						Total Qty	**110.66**	**5327.64**	**589545.99**
8	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications, specification. No. KBS 2.9 (Page No.6, It No. 2.10 of KPWD S.R 2015-16)								
	Ch:00-102	Cum	1	102.00	12.00	0.80	979.20		
	Ch:00-21.22(20.37+22.06/2)		1	21.22	23.40	0.80	397.24		
	Ch:00-41 (43+39/2)		1	41.00	59.40	0.80	1948.32		
						Total Qty	**3324.76**	**239.76**	**797144.07**
##								**Total construction cost**	**91,72,948.59**
10								**KRIDL Charges 8%+1%**	**8,25,565.37**
								Sub Total	**99,98,513.96**
								Miscellaneous & Rounding Off	**1,486.04**
								Grand Total	**100,00,000.0**

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2015-16
4. The provisions made in the estimate are necessary and essential.

Assistant Engineer
Project Sub Division
BBMP - Bangalore

Assistant Executive Engineer
Project Sub Division
BBMP - Bangalore

Executive Engineer
Dasrahalli Project Division
BBMP - Bangalore

ನಂ. JC|D|AS|PR|56|16-17 ದಿನಾಂಕ :29/11/16
ರೂ. 100.00 lakhs only (Rupee One Crore Only) ರೂಪಾಯಿ ಸಂಖ್ಯೆ: commr|PS|(G)|5548|16-17 dt: 16/11/16
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಜಂಟಿ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. EE|DZ|TS|74|2016-17 ದಿನಾಂಕ : 29/11/2016
100.00 Lakhs [Rupees one Hundred Lakhs only]
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ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
			1	41.91	1.00	0.10	4.19		
			1	41.54	1.00	0.10	4.15		
			1	41.18	1.00	0.10	4.12		
			1	40.82	1.00	0.10	4.08		
			1	40.45	1.00	0.10	4.05		
			1	40.00	1.00	0.10	4.00		
			1	39.72	1.00	0.10	3.97		
			1	39.36	1.00	0.10	3.94		
			1	39.00	1.00	0.10	3.90		
						Total Qty	**110.66**	**5327.64**	**589545.99**
8	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications, specification. No. KBS 2.9 (Page No.6, It No. 2.10 of KPWD S.R 2015-16)								
	Ch:00-102	Cum	1	102.00	12.00	0.80	979.20		
	Ch:00-21.22(20.37+22.06/2)		1	21.22	23.40	0.80	397.24		
	Ch:00-41 (43+39/2)		1	41.00	59.40	0.80	1948.32		
						Total Qty	**3324.76**	**239.76**	**797144.07**
##								**Total construction cost**	**91,72,948.59**
10								**KRIDL Charges 8%+1%**	**8,25,565.37**
								Sub Total	**99,98,513.96**
								Miscellaneous & Rounding Off	**1,486.04**
								Grand Total	**100,00,000.0**

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ಜಂಟಿ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. EE|DZ|TS|74|2016-17 ದಿನಾಂಕ : 29/11/2016
100.00 Lakhs [Rupees one Hundred Lakhs only]
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.